100

115

**Document Management System**

Repository

**130**

Doc #1

Word

Doc #1 ACL

User A
permissions

User B
permissions

Authorization
module

**120**

Encryption
module

**125**

Doc #1

PDF

140

150

145

135

Computer network

110

105a

USER A

105b

USER B

FIG. 1

Matter No.: 07844-609001
Applicant(s): Bill Shapiro et al.
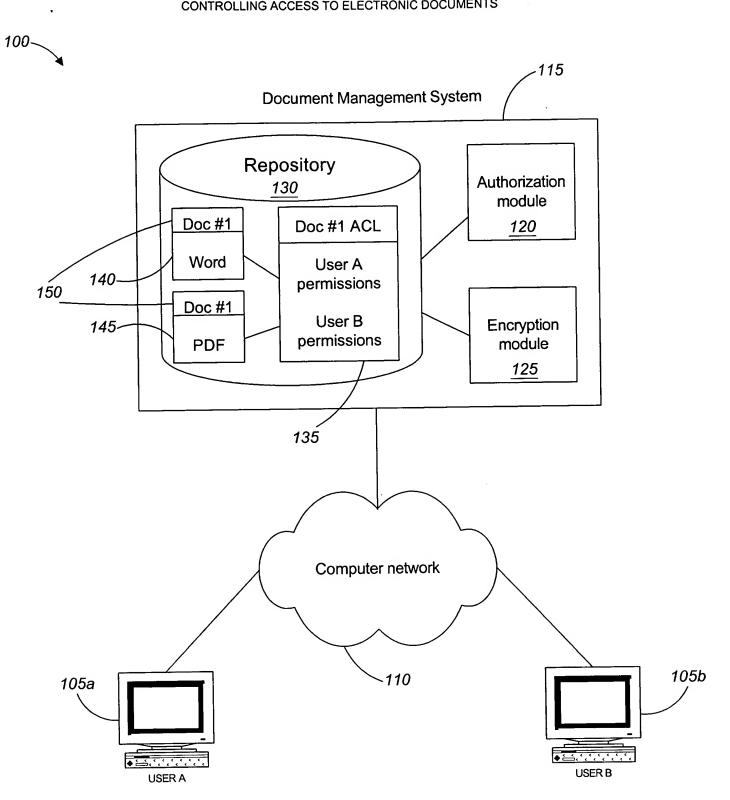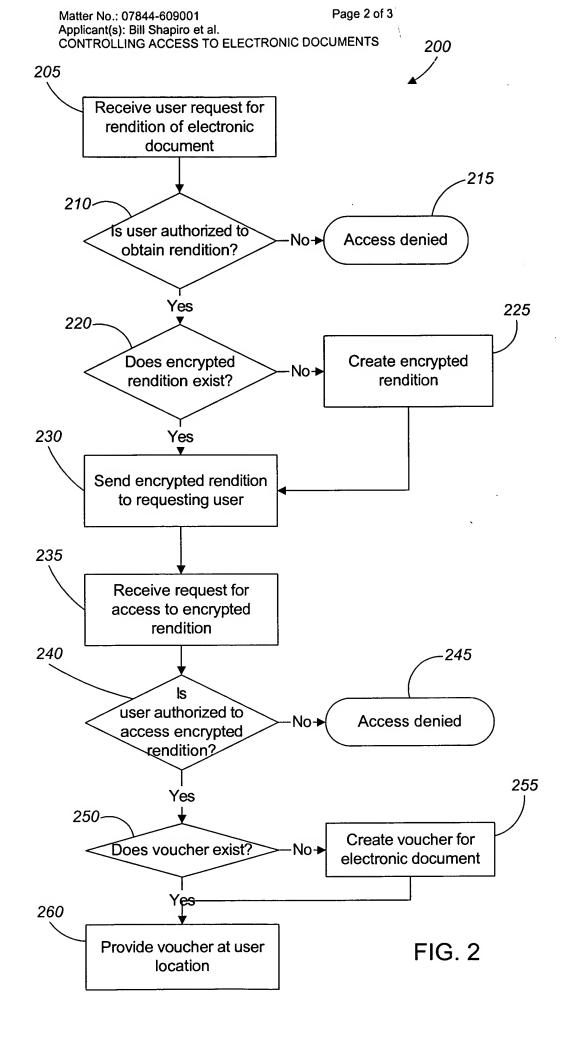CONTROLLING ACCESS TO ELECTRONIC DOCUMENTS

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200

205

Receive user request for rendition of electronic document

210 — Is user authorized to obtain rendition? —No→ Access denied — 215

Yes

220 — Does encrypted rendition exist? —No→ Create encrypted rendition — 225

Yes

230 Send encrypted rendition to requesting user

235 Receive request for access to encrypted rendition

240 Is user authorized to access encrypted rendition? —No→ Access denied — 245

Yes

250 — Does voucher exist? —No→ Create voucher for electronic document — 255

Yes

260 Provide voucher at user location

FIG. 2

*305*

*300*

**Request access to encrypted, access controlled rendition of electronic document**

*310*

**Does encrypted document exist locally?** —No→

*315*

**Obtain encrypted rendition from document repository**

Yes

*320*

**Can encrypted rendition be opened?** —No→

*325*

**Request plugin for handling access controlled documents from remote site**

Yes

*330*

**Does voucher exist on user's computer?** —No→

*335*

**Request voucher from remote server**

Yes

*340*

**Extract key from voucher and decrypt rendition at user's location**

*355*

**Display error message** ←No—

*345*

**Requested operation permitted?** —Yes→

*350*

**Perform requested operation**

FIG. 3